Vulnerability DSM Summary Brief to 3rd ONR Ship Design Process Workshop

April 2009

Vulnerability DSM

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Review and Interpret Requirements	1																						
Provide Susceptibility System Inputs (EXTER	2	1												_	£.	. 1	C		_	££		~ !	tiv
Provide Recoverability System Inputs (EXTE	3	1										U	5	e	IL	11	C	X	e	Ш	e		LIV
Evaluate Prior Phase (AoA) Designs	4	1	1	1		1					Γ,	O '			•	i			ī	7	21	۸л	
Define Vital Systems and Spaces	5	1	1	1	1						Γ'	E.	X		C		5 t	,	L	J	SI	VI	
Input Hit Distribution (EXTERNAL)	6	1			1						Γ,	C	h	\bigcirc	\ A /	0	r	١	· ^	n	۸i	0	e!
Add Design Detail where Required	7		1	1	1	1			4		Γ,	3	Ш	U	VV	3	ŀ	JI	U	' 		3	C!
Conduct Trade-Offs	8	4			4	4	4	4			Γ												
Evaluate Shock	9	1	1	1	1	1	1	1	4											Г			
Evaluate Holing	10	1			1	1	1	1	4											П			П
Evaluate Whipping	11	1			1		1	1	4											П			
Perform Vulnerability Assessment (Modeling	12	1			1	1	1	1	4	1	1	1								П			
Perform Damage Stability	13	1			1	1	1	1	4	1	1	1								П			П
Prepare Cost Estimate Sheets	14				1			1	4							1							
Conduct Risk Assessment	15	1			1	1			4	1	1	1	1	1	1		1			1	Г		
Generate Cost Estimates (EXTERNAL)	16														1	1				П	Г		П
Capture Uncertainty in Assessments	17	1					1	1	4	1	1	1	1	1	1	1	1			П	Г		
Make Recommendations for Survivability Cha	18								4	1	1	1	1	1	1	1	1	1			Г		П
Report Vulnerability Results/Conclusions	19								4	1	1	1	1	1				1	1				П
Develop Reliability Growth Plan	20	1													1	1			1	1			
Output Recoverability System Assessment	21			1					4	1	1	1	1	1		1		1	1	Т	Г		
Output Susceptability System Assessment	22		1						4				1	1		1		1	1	П	Г		

Recommendations

- Describe how DSM for Vulnerability will be integrated with Hull, Machinery, ITD, and other DSM efforts.
- Apply DSM to DDS 072-4 ("Hull Mech, Elect Systems Survivability")
- Do same exercise with Susceptibility and Recoverability processes.